

Allocation of Information Security Requirements to Security Enclaves Based on System Risk and Criticality – High Risk

High Risk Protection Profile Requirement	WAN	LAN/ Facility Comm.	Application System
<p>3.8.5.A All NAS systems shall provide the required level of security functionality and security integrity based upon vulnerability, threat, and risk analyses. The threat analysis, risk analysis, and risk mitigation priority are documented in Section 3 of a Protection Profile and Security Target. This information is used to determine the security objectives stated in Section 4 and the security functional requirements, security assurance requirements, and evaluation assurance level specified in Section 5.</p>	X	X	X
<p>3.8.5.B All NAS systems shall provide the required level of security training based upon the vulnerability, threat, and risk analyses.</p> <p>ADO_DEL.1 Delivery procedures</p> <p>ADO_IGS.1 Installation, generation, and start-up procedures</p> <p>AGD_ADM.1 Administrator guidance</p> <p>AGD_USR.1 User guidance</p>	X	X	X
<p>3.8.5.C All NAS systems shall be protected from threats to compromise integrity.</p> <p>FDP_DAU.1 Basic data authentication</p> <p>FDP_ROL.1 Basic rollback</p> <p>FDP.SDI.2 Stored data integrity monitoring and action</p> <p>FDP_UIT.1 Data exchange integrity</p> <p>FPT_AMT.1 Abstract machine testing</p> <p>FPT_FLS.1 Failure with preservation of secure state</p> <p>FPT_ITI.2 Inter-TSF detection and correction of modification</p> <p>FPT_ITT.3 TSF data integrity monitoring</p>	X	X	X

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FPT_PHP.2 Notification of physical attack	X	X	X
FPT_PHP.3 Resistance to physical attack	X	X	X
FPT_RPL.1 Replay detection	X	X	X
FPT_SSP.1 Simple trusted acknowledgement	X	X	
FPT_TDC.1 Inter-TSF data consistency			X
FPT_TRC.1 Internal TSF consistency			X
FPT_TST.1 TSF testing	X	X	X
3.8.5.D All NAS systems shall be protected from threats to compromise availability .			
FPT_ITA.1 Inter-TSF availability	X	X	
FRU_FLT.2 Limited fault tolerance	X	X	X
FRU_PRS.2 Full priority of service	X	X	X
FRU_RSA.2 Minimum and maximum quotas	X	X	X
3.8.5.E All NAS systems shall provide access control .			
FDP_ACC.2 Complete access control	X	X	X
FDP_ACF.1 Security attribute based access control	X	X	X
FDP_ETC.1 Export of user data without security attributes	X	X	X
FDP_IFC.1 Subset information flow control	X	X	X
FDP_IFF.1 Simple security attributes	X	X	X

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FDP_IFF.5 No illicit information flows	X	X	X
FDP_IFF.6 Illicit information flow monitoring	X	X	X
FDP_ITC.1 Import of user data without security attributes	X	X	X
FPT_SEP.1 TSF domain separation	X	X	X
3.8.5.F All NAS systems shall provide an audit capability sufficient to monitor attempted and successful system intrusions.			
FAU_ARP.1 Security Alarms	X	X	X
FAU_GEN.1 Audit data generation	X	X	X
FAU_GEN.2 User identity association	X	X	X
FAU_SAA.2 Profile based anomaly detection	X	X	X
FAU_SAA.4 Complex attack heuristics	X	X	X
FAU_SAR.1 Audit review	X	X	X
FAU_SAR.2 Restricted audit review	X	X	X
FAU_SAR.3 Selectable audit review	X	X	X
FAU_SEL.1 Selective audit	X	X	X
FAU_STG.2 Guarantees of audit data availability	X	X	X
FAU_STG.4 Prevention of audit data loss	X	X	X
FPT_STM.1 Reliable time stamps	X	X	X
3.8.5.G All NAS systems shall provide for information confidentiality based			

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upon the result of a security assessment.			
FCS_CKM.1 Key generation	X	X	X
FCS_CKM.2 Key distribution	X	X	X
FCS_CKM.3 Key access	X	X	X
FCS_CKM.4 Key destruction	X	X	X
FCS_COP.1 Cryptographic operation	X	X	X
FDP_RIP.2 Full residual information protection			X
FDP_UCT.1 Basic data exchange confidentiality	X	X	
FPR_ANO.1 Anonymity	X	X	X
FPR_PSE.1 Pseudonymity	X	X	X
FPT_ITC.1 Inter-TSF confidentiality during transmission	X	X	
FPT_ITT.2 TSF data transfer separation	X	X	
3.8.5.H NAS systems shall implement identification and authentication at a level based upon a security assessment, and non-repudiation when appropriate.			
FCO_NRO.2 Enforced proof of origin		X	
FCO_NRR.2 Enforced proof of receipt		X	
FIA_AFL.1 Authentication failure handling	X	X	X
FIA_ATD.1 User attribute definition	X	X	X
FIA_SOS.1 Verification of secrets	X	X	X

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FIA_SOS.2 Generation of secrets	X	X	X
FIA_UAU.2 User authentication before any action	X	X	X
FIA_UAU.3 Unforgeable authentication	X	X	X
FIA_UAU.4 Single-use authentication mechanisms	X	X	X
FIA_UAU.5 Multiple authentication mechanisms	X	X	X
FIA_UAU.6 Re-authenticating	X	X	X
FIA_UAU.7 Protected authentication feedback	X	X	X
FIA_UID.2 User identification before any action	X	X	X
FIA_USB.1 User-subject binding		X	X
FTP_ITC.1 Inter-TSF trusted channel	X	X	
FTP_TRP.1 Trusted path	X	X	
3.8.5.I All NAS systems shall provide recovery measures from security incidents.			
FDP_UIT.3 Destination data exchange recovery	X	X	X
FPT_RCV.3 Automated recovery without undue loss	X	X	X
FPT_RCV.4 Function recovery	X	X	X
3.8.5.J All NAS systems shall provide the capability to centrally manage security functions.			
FMT_MOF.1 Management of security functions behavior	X	X	X
FMT_MSA.1 Management of security attributes	X	X	X

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FMT_MSA.2 Secure security attributes	X	X	X
FMT_MSA.3 Static attribute initialization	X	X	X
FMT_MTD.1 Management of TSF data	X	X	X
FMT_MTD.2 Management of limits on TSF data	X	X	X
FMT_MTD.3 Secure TSF data	X	X	X
FMT_REV.1 Revocation	X	X	X
FMT_SAE.1 Time-limited authorization	X	X	X
FMT_SMR.1 Security roles	X	X	X
FTA_LSA.1 Limitation on scope of selectable attributes			X
FTA_MCS.1 Basic limitation on multiple concurrent sessions			X
FTA_SSL.1 TSF-initiated session locking			X
FTA_SSL.3 TSF-initiated termination			X
FTA_TAB.1 Default TOE access banners			X
FTA_TSE.1 TOE session establishment			X